

U N I V E R S I T Y O F G L A S G O W

Computing Department

I.C.S. MULTUM

DOCUMENTATION.

1. I.C.S. User Specifications

| | |
|--------|---|
| 774000 | EXECUTIVE ALP1 |
| 774040 | TYPEWRITER/V.D.U. DEVICE ROUTINE (ALP1) |
| 774041 | BASIC DEVICE ROUTINE - ALP1 |
| 774042 | LINEPRINTER DEVICE ROUTINE (ALP1) |

2. I.C.S. Internal Reports

(i) 2002 Series : Hardware Specifications.

- 19 METHOD OF OPERATION OF THE MACHINE CONTROL
TYPEWRITER FOR MULTUM
C.R.J. Walton 18 March 1971
- 22 OPERATION OF THE TREND HSR 500 MEDIUM SPEED
PAPER TAPE READER.
P. Brackner 3 June 1971
- 27 OPERATION OF THE FACIT 4070 MEDIUM SPEED
PAPER TAPE PUNCH
P. Brackner 6 August 1971
- 29 SPECIFICATION FOR THE ALP1
D.T. Yardy 5 October 1971
- 32B A FIXED FORMAT CONTROLLER FOR C.D.C. 9425/9427
CARTRIDGE DISC DRIVE
C.R.J. Walton 11 May 1972
- 33 DRAFT SPECIFICATION OF THE INPUT-OUTPUT
CONTROLLER MK.2 (IOC2)
P. Brackner 24 November 1971
- 36 SINGLE ASYNCHRONOUS COMMUNICATION CHANNEL
FOR MULTUM
C.R.J. Walton 16 February 1972
- 39B SINGLE SYNCHRONOUS COMMUNICATION CHANNEL FOR
MULTUM
C.R.J. Walton 22 June 1972
- 42 SPECIFICATION FOR THE ALP2
D.T. Yardy 14 July 1972

(ii) 2003 Series : Software Specifications.

| | | |
|------|--|-------------------|
| 1 | PROGRAMMER'S HARDWARE MANUAL | |
| | J.M.G. Jones | 25 September 1970 |
| 12B | BASIC EXECUTIVE (ALP1) | |
| | P. Williams | 1 December 1970 |
| 22 | INTEGRATOR PARAMETER LANGUAGE (IPL) | |
| | C.A. Ashurst | 5 November 1971 |
| 23 | OBJECT CODE LANGUAGE (OCL) | |
| | C.A. Ashurst | 10 November 1971 |
| ✓ 24 | USERCODE LANGUAGE | |
| | C.A. Ashurst | 17 November 1971 |
| 32 | THE OPERATING SYSTEM AND THE FILE HANDLING PACKAGE | |
| | E.A. Davenport | |
| 33B | DISC DEVICE ROUTINE | |
| | B.J. Warren | 26 June 1972 |
| 34 | DISC READ ONLY ALLOCATION PROCEDURE | |
| | B.J. Warren | 26 July 1972 |
| 35 | DISC INITIALISATION PROCEDURE | |
| | B.J. Warren | 10 July 1972 |

(iii) 2008 Series : Floating Point Arithmetic.

18A FLOATING POINT FORMATS AND INSTRUCTIONS.

C.A. Ashurst

28 June 1972

✓ 23 PROGRAMMABLE TIMER

D.T. Yardy

9 October 1972

3. Glasgow Memoranda

(i) Operating System

- ✓ 1 An Outline Specification 20 June 1972
- ✓ 2 Software Implementation Languages
for the MULTUM Computer 20 June 1972
- ✓ 3 Outline Specification of a Virtual
I/O System 17 August 1972
- ✓ 4 *Draft Specification of the Backing
Store File System* 1 November 1972

*Sent to
Det. Russell.*

(ii) Hardware

- | | | |
|-----|-------------------------------------|-------------------|
| ✓ 1 | Proposals for an Interval Timer | 20 June 1972 |
| ✓ 2 | Fixed and Floating Point Arithmetic | 17 August 1972 |
| ✓ 3 | Arithmetic on the I.C.S. MULTUM | 15 September 1972 |

(iii) Pascal Compiler

✓ 1. A Run Time Environment for Multum Pascal

20 Dec 1972